104-2-4/38

Imbritskiy, M.I., Engineer. AUTHOR:

Damage to steam and water fittings in power stations. (Fourezhdeniya parovodyanoy armatury na elektrostantsiyakh.) TITIE:

"Elektricheskie Stantsii" (Power Stations), 1957, Vol.28, PERIODICAL:

No.2, pp. 21 - 25 (U.S.S.R.)

ABSTRACT: Although the quality of fittings produced has recently improved some of them are still not good enough. In the power stations of the Moscow system in 1955 there were 11 accidents and 98 cases of scrapping equipment because of damage to littings. In one high pressure power station in the first year of operation two boilers had to be stopped 11 times. This all occurred because of defects of design, erection and operation and defects associated with poor quality repairs. The article describes the defects of design with particular reference to steam valves and explains with drawings how these are being corrected. Defects associated with poor quality of repairs are then discussed - this is mainly concerned with the organisation of repair work. Defects of erection and operations are also described. It is concluded that fittings factories should improve the quality of production of control and safety valves taking advantage of the experience of power stations. Power Card 1/2 systems should organise the centralised repair of fittings at

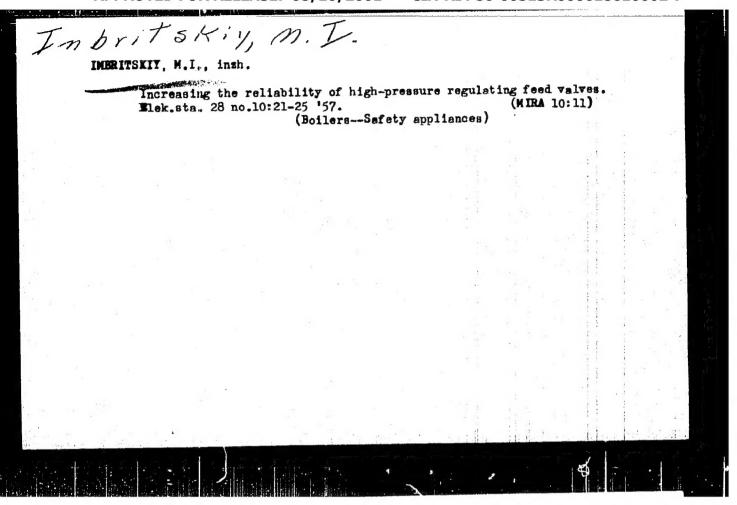
104-2-4/38
Damage to steam and water fittings in power stations. (Cont.)

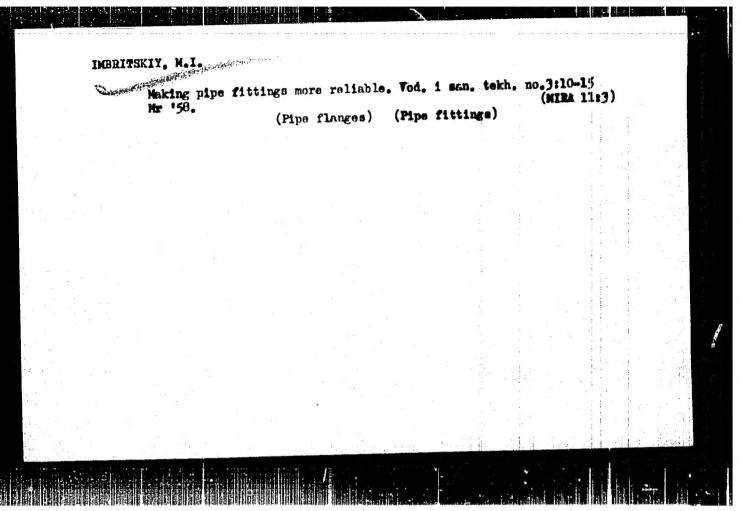
special repair works or in power station was shops. Special designs of fittings repair workshops should be got out. Special courses on the repair of fittings should be instituted in power systems. Existing instructions on the repair of fittings are largely inadequate and they should be rewritten. If fittings appear to be undamaged they should not be dismantled for inspection before erection.

There are 6 figures.

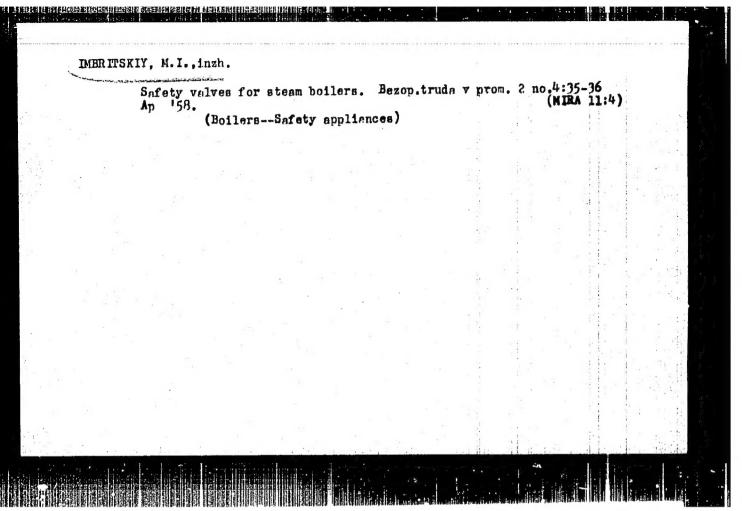
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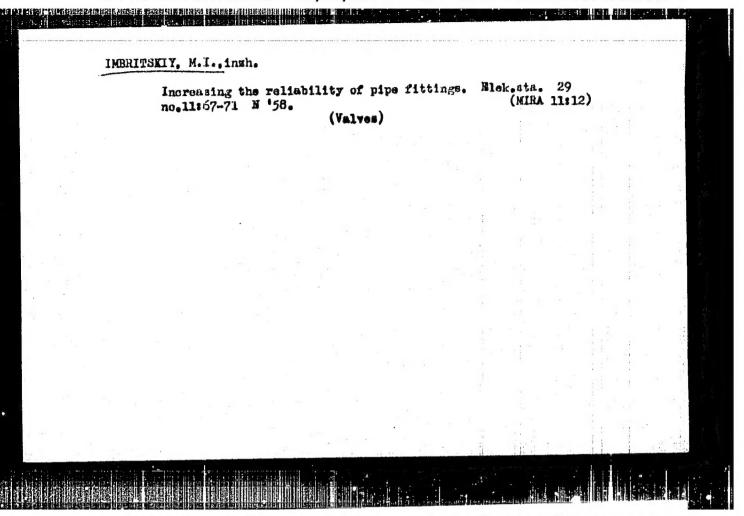
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8(5)

SOV/91-59-3-12/22

STANDARD BEI BEI BEI BER BER BER

AUTHOR:

Imbritskiy, M.I., Engineer

TITLE:

Gasket Sealings for Fittings in Power Plants (Sal'nikovyye uplotneniya armatury na elektro-

stantsiyakh)

PERIODICAL:

Energetik, 1959.

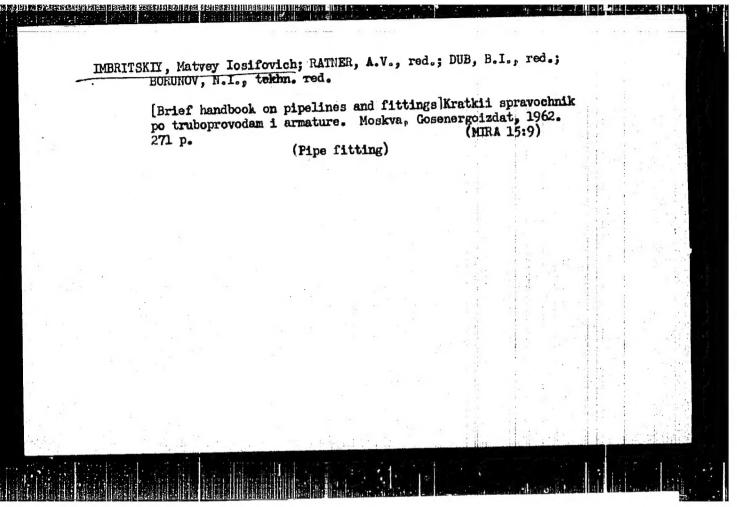
Nr 3, pp 21-25 (USSR)

ABSTRACT:

The author describes various types of gasket sealings currently used for fittings used in Soviet power plants. The sealings most often used consist of a mixture of 60-70% graphite and 40-30% asbestos flakes, and are called "Pushonka". Other popular sealings are of graphite and asbestos rings placed alternately and pressed. In conclusion, the author gives practical instructions for installing new packings. There are

5 diagrams.

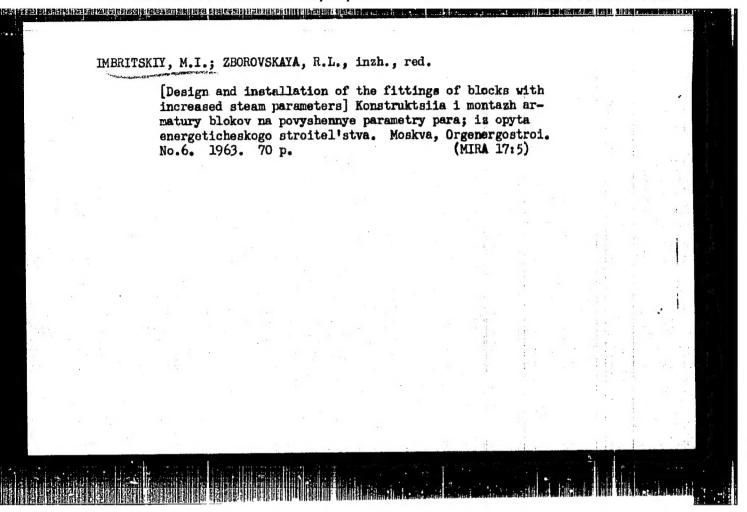
Card 1/1



MERITSKIY, Maivey Losifovich; NIKITIN, Anatoliy Pavlovich; ZHILIN,
V.G., red.; FRIDKIN, L.M., tekhn. red.

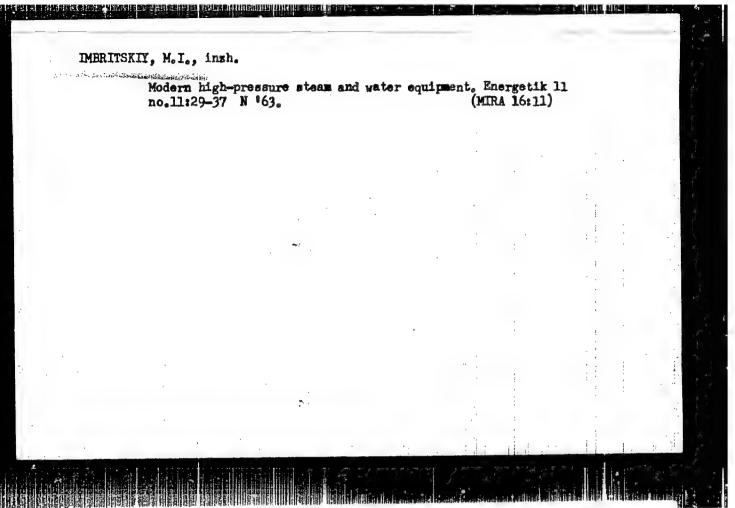
[Handbook on piping and fittings for thermal electric
power plants]Spravochnik po truboprovodam i amature dlia
teplovykh elektricheskikh stantsii. Moskva, Gosenergoizdat,
1962. 287 p.

(Electric power plants—Equipment and supplies) (Pipe)



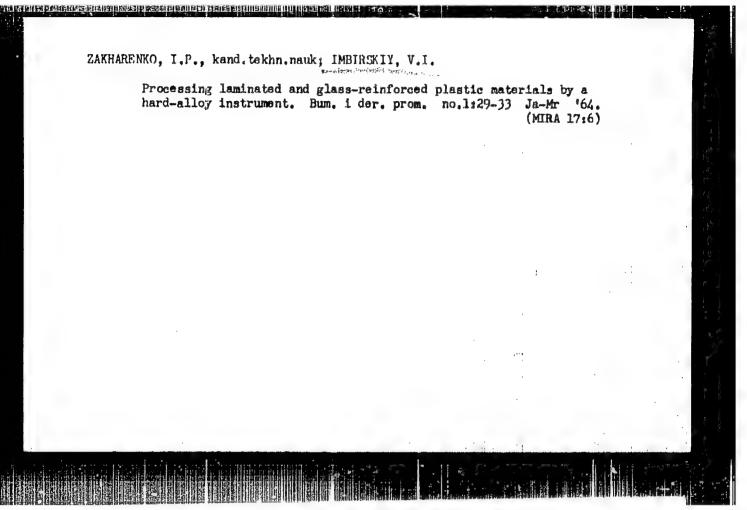
IMERITSKIY. Metwey Iosifovich; MeLEYEV, A.S., red.; BUL'DYAYEV, N.A., tekhn. red.

[Repair of fittings] Remont armatury. Izd.2., perer. i dop. Moskva, Gosenergoizdat, 1963. 327 p. (MIRA 16:12) (Electric power plants—Equipment and supplies)



VUKALOVICH, M.P.; CROMOV, N.K.; IMERITSKIY, M.I.; KARTOSHKIN,
M.D.; KORRIHA, R.B.: LEONOVA, A.Ya.; TROYANSKIY, Ye.A.;
MANUYLOV, P.N.; SHUKHER, S.M., red.

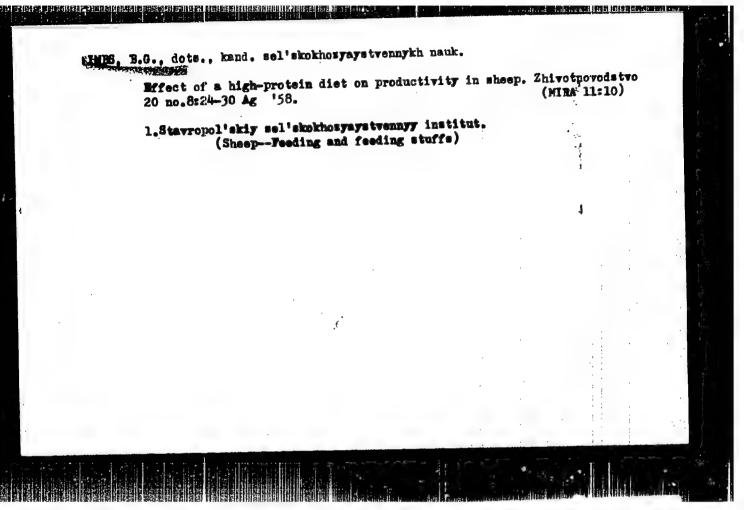
[Heat engineer's handbook] Spravochnaia kmizhka teplotekhnika. Izd.2., perer. i dop. Moskva, Knorgiia, 1964.
(MIRA 17:12)

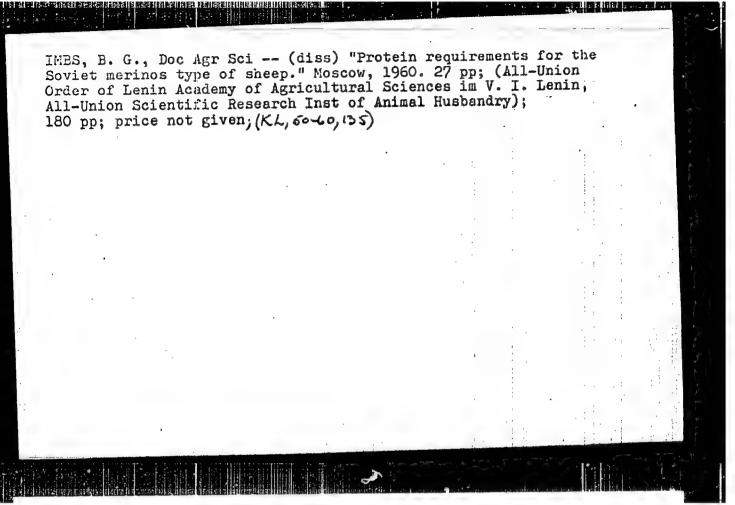


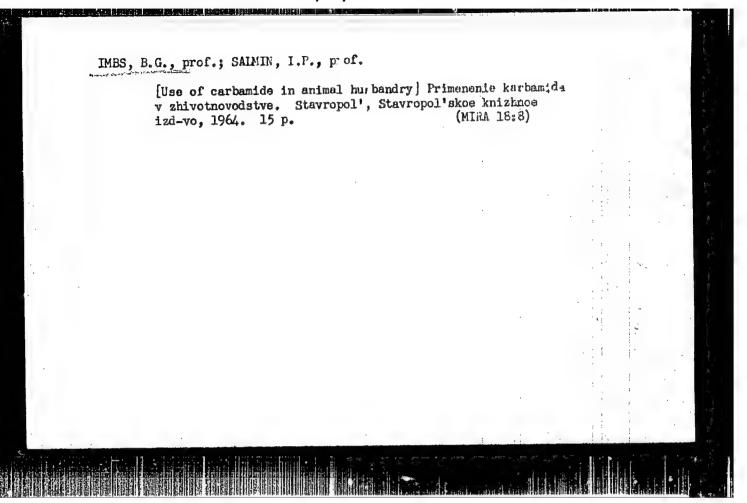
IMES, P. G.

Imbs, B. G. "Standardized feeding of young sheep," Trudy Stavrops.-kh. in-ta,
Issue 3, 19h8, p. 161-98

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)







IMBS, Boguslaw, dr. (Olsztyn)

est est est est sent tentest is em lucas l'unesen d'halleux storalen i interpret un main la character est est

Principal questions of the organisation of the Polish food industry. Elelm ipar 17 no.4:127-128 Ap \*63.

IMES, Boguslaw, dr.

Organizational problems in the food industry of Poland. Elelm ipar 17 mo.10:301-307 0 '63.

1. Mezogazdasagi Foiskola, Olsztyn, Lengyel Nepkoztarsasag.

BATRA DA ANTARA PERENTANA SELECTERA PERENTE REZUGIA DEL MERA ETRIGORIA FINAS COMO DI MINISTRAT. TALBONIA

# WANKOWICZ, Regina; IMRS. Daniela A case of adenovirus type 4 infection with a severe clinical course. Pediat. Pol. 40 no.3:301-303 Mr '65 1. Z Kliniki Terapii Cherob Dzieci Akademii Medyemnej w Warszawie (Kierownik: prof..dr. med. H. Brokman) i z Zakladu Wirusologii Panstwowego Zakladu Higieny w Warszawie (Kierownik: prof. dr. med. F.Przesmycki).

USSR / Plant Physiology. Photosynthosis.

I

Lbs Jour

: Rof Zhur - Biol., No 1, 1959, No 1265

..uthor

: Skripehinskiy, V. V.; Imbs, G.; Kosikova, P. G., and Ledokhovica, M. M.

Inst

: Not given

Titlo

: Carotin and Chlorophyll Content in the Leaves of Some Fedder and Coroal Grass Plants of Stavropol'ye During Various Stages of Development.

Orig Pub

: Materialy po Isuch. Stavropol'sk. Kraya, Fasciclo 8, 61-72, 1956.

Lbstraot

studies of the dynamics of chlorophyll and caretin in the leaves of crested wheat grass, arhizomateus wheat grass, awaless bromograss, dow grass, meadow timethy, tall eatgrass, bulbous barley, cultivated and wild ryo, and winter ryo and wheat, under conditions of Stavropel'skiy Kray. The increase or decrease in the amount of green pigments

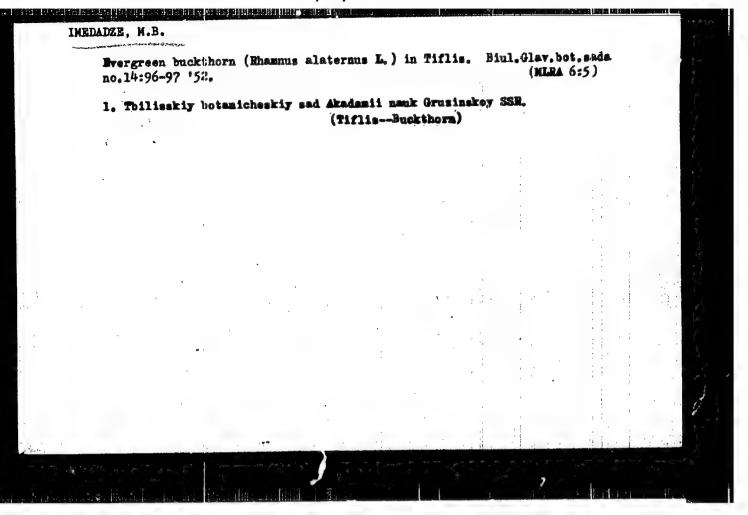
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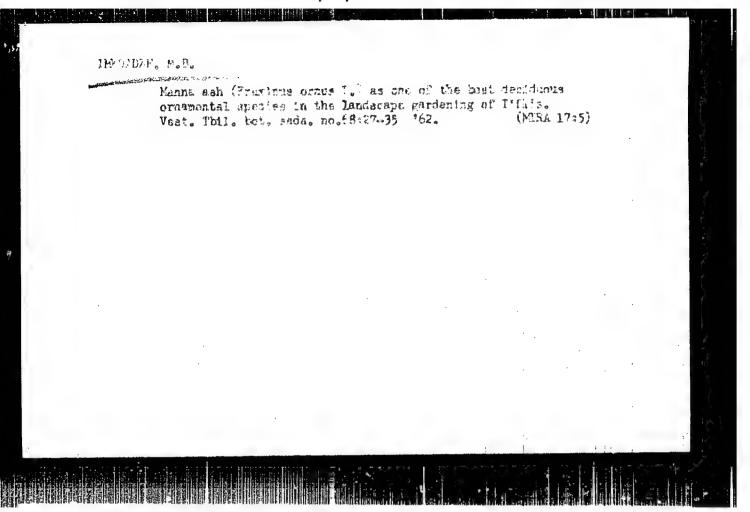
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618610002-7

ibs Jour : Rof Zhur - Biol., No 1, 1959, No 1265

was observed not to be necessarily accompanied by an increase or decrease in the amount of caretan. In arhizonatous wheat grass, bulbous barloy, and perennial forms of ryo, the maximum quantity of chlorophyll was present during the stages of tillering, tube-formation and earing; in the created wheat grass and meadow timethy the chlorophyll content increased until the stage of tube-formation. The maximum content of caretin (in milligrams/kg) was observed in winter wheat (663), bulbous barloy (559), perennial forms of ryo (505-580), dow grass (542), tall eatgrass (510), created wheat grass (216-402). Bibliography with 15 titles.— N. S. Gorelkina.

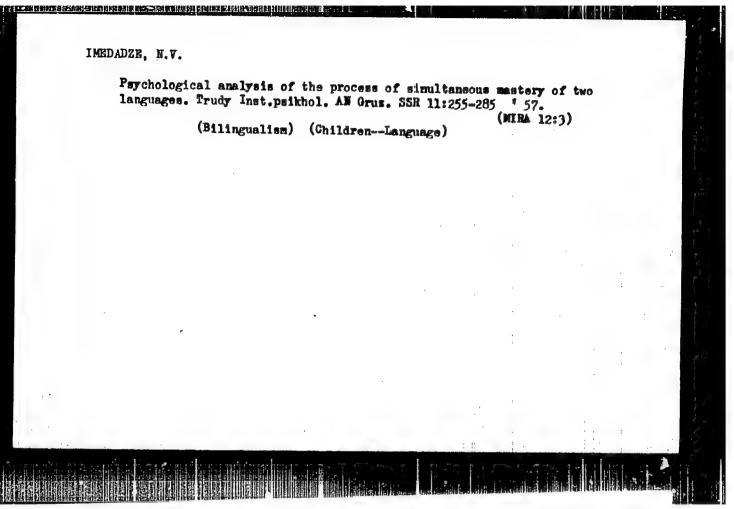
Card 2/2





# IMEDADZE, N.V.

Some psychological aspects of studying the lexicology of the Russian language in Georgian schools. Truly Inst.psikhol. AN Grus.SSR 14:91-100 63. (MIRA 18:4)



IMEDADZE, E.V.

Psychological nature of early bilingualies [with summary in Englici].

Yop. psikhol. 6 no.1;60-68 Js-7 '60. (MIRA 13:6)

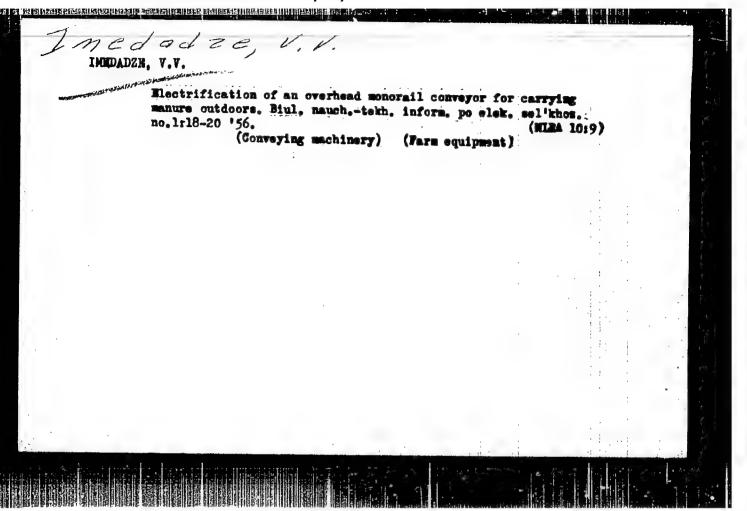
1. Institut psikhologii AF Grusser, Toilisi.
(Bilingualise--Psychological aspects)

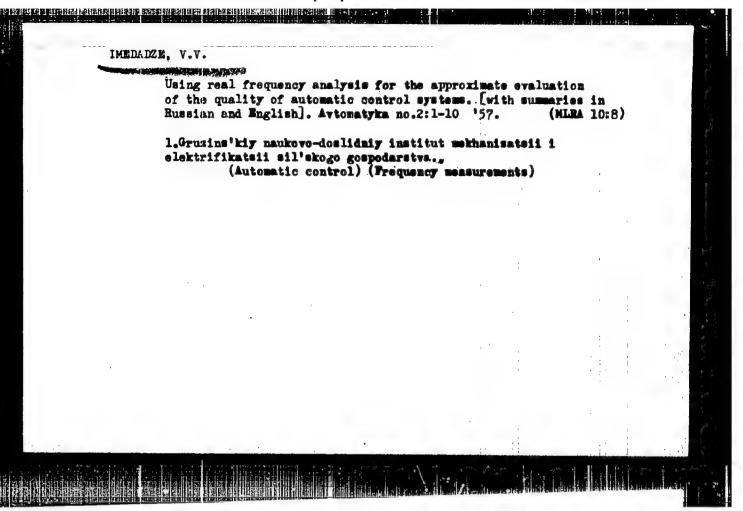
IMEDADZE, V. V.

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"Investigatic: of the Systems of Automatic Control and of the Control of Subsidiary Mechanisms in Print Rolling Mills and Heavy Type Excavators,"

Dissertation for the Degree of Candidate of Technical Sciences, defended at Institute for Automation and Remote Coutrol of the AS USSR, 25 June 1953, (Elektrichestvo, 1958, Nr 4, pp. 87-88)/





S/194/61/000/010/032/082 D222/D301

9,7100 AUTHORS:

Imedadze, V.V. and Paylodze, I.P.

TITLE:

Registers and binary counters with ferrites and

transistors

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 32, abstract 10 B215 (Elektronikis, avtomatikisa da telemekhanikis institutis shromebi. Tr. In-ta elektroniki, avtomatiki i telemekhaniki

AN GruzSSR, 1960, 1, 65-91)

TEXT: Circuits of distributors and registers with ferrites and transistors, constructed without using blocking pulses are described. In these circuits the transistors are connected into the coupling circuits so that the process of transmitting information to the next digit is different from earlier circuits. The circuits are analyzed for the cases when the shifting windings of all digits are driven sequentially and in parallel. Oscillograms of all basic

B

Card 1/2

Registers and binary counters...

S/194/61/000/010/032/082 D222/D301

values illustrating the operation of a binary counter are given. The theoretical analysis and experimental data agree well. 16 figures. 4 references. 

Abstracter's note: Complete translation

**UB** 

Card 2/2

S/194/61/000/010/035/082 D256/D301

9.4120 AUTHORS:

Imedadze, V.V. and Lekvinadze, A.G.

TITLE:

Performance analysis of a thyratron commutator-

switch

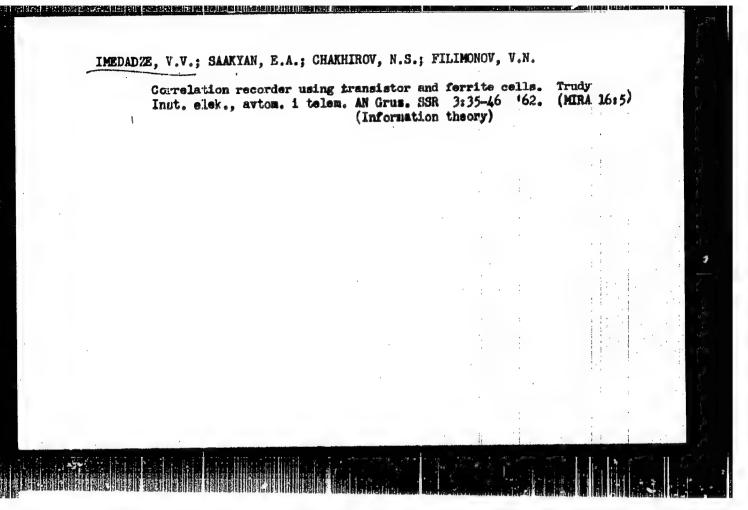
PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1960, 5, abstract 10 V37 (Tr. In-ta elektroniki avtomatiki i telemekhan. AN GruzSSR, 1960,

1. 93-103)

TEXT: An analysis is presented of a thyratron switching arrangement under active- and inductive-loads, and it is shown that the switching speed is considerably higher for a purely active load than for a mixed active-inductive one. A system of switching el.magn. devices was investigated and a max. switching speed of 100-150 cs/sec was reached. The results of the experiments were found to be in full agreement with the analysis. 9 figures. 4 references. Abstracter's note: Complete translation

Card 1/1

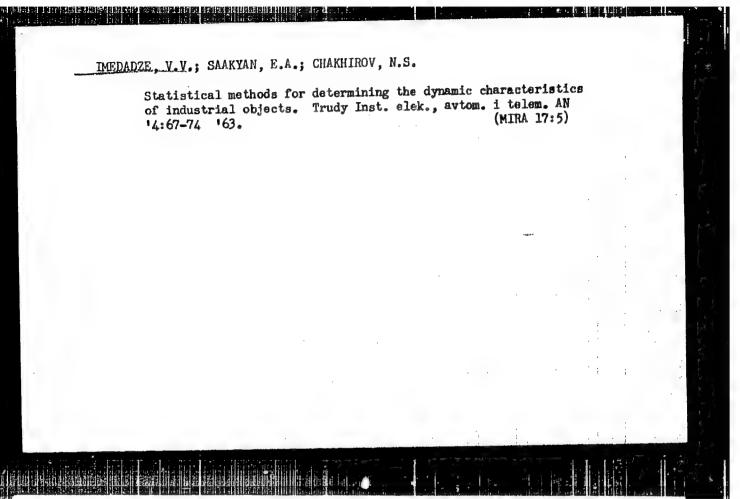


THE REPORT OF THE PROPERTY OF THE PARTY OF T

DCMANITSKIY, S. M.; INEDADZE, V. V.: DEKVINADZE, A. G.

"Digital Optimal System of Programme Control and Its Application for Blooming Mill Press Device."

Paper to presented at the IFAC Cungress, to be held in Basel, Switzerland, 27 Aug to 4 Sep 63



### L 00470-65

ACCESSION NR:

AT5014331

UR/C000/64/000/000/0071/0084

Imedadze, V. V.; Saakyan, E. A.; Melikhova, Ye. V

TITLE: Determination of the dynamic characteristics using a discrete correlation computer

SOURCE: AN GruzSSR. Institut elektroniki, aytomatikii telemekhaniki. Elementr vychislitel'noy tekhniki i mashinnyy perevod (Elements of computer technology and machine translation). Tiflis, Izd-vo Metsniyereba, 1964, 71-84

TOPIC TAGS: correlation function, data processing system, data correlation

ABSTRACT: The article discusses the various computer methods of determining the correlation function by means of a convolution-type integral of the form

 $R_{xx}(\epsilon) = \int R_{xx}(\epsilon - \sigma)k(\sigma)d\sigma,$ 

where  $R_{VX}$  is the mutual correlation function,  $R_{XX}$  the autocorrelation function, and  $K(\sigma)$  the impulse transfer function of the system. It is shown that the combined use of the Fourier transformation and of a special computer (discrete correlograph) offers many advantages over other methods. The correlograph itself was developed at the Institut elektroniki, avtomatiki i telemekhaniki (Institute of

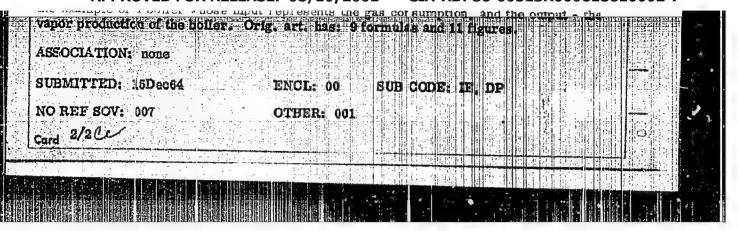
Card 1/2

CONTRACTOR OF THE PROPERTY OF

L 00470-66 ACCESSION IIR: AT5014331 Electronics, Automation, and Telemechanics) AN GrusseR and was described elsewhere by two of the authors (Imedadze and Saskyan, with W. S. Chakhirov, Diskretily, korrelograf [Discrete Correlograph], Izdaniye TsITEIN, No. 22, Moscow, 1961). The processing of the primary information for the determination of the impulse transfer function with this correlograph consists of three stages. The first involves the determination of the correlation functions from the primary information. The second consists of calculating the spectral densities, the real frequency characteristic, and the imaginary frequency characteristic of the system. The third stage consists of finding the transfer function itself. The mathematics and the required computer programming are described in some detail, and some illustrative examples pertaining to the control of a blast furnce are included. The calculation results were in satisfactory agreement with the actual data. Orig. art. has: 13 figures and 16 formulas. ASSOCIATION: none SUBMITTED: 14Aug64 SUB CODE: NR REF BOY! OTHER: neer Card 2/2

ENT(d)/EFF(n)-2/ENP(v)/EIP(k)/ENP(h)/ENP(1) FO-1/PA-1/P4-1/PE-WW/GS/BC IJP(c) Pae-2/Pu-4/Pk-4/Pl-4 UR/0000/65/000/000/d127/0135 ACCESSION NR: AT500:1733 AUTHOR: Imedadze, V. V.; Saakvan, E.A. TITLE: Calculation of the dynamic characteristics of objects under control using a discrete correlograph EOURCE: Analiticheskiye samonastratvayushchiyesya sistemy avotmaticheskogo upravileniya (Analytical adaptive control systems). Moscow, Izd-ve Mashinostroyeniya, 1965, 127-135 TOPIC TAGS: correlograph, dynamic characteristic calculation, successful caloclation, mutual correlation calculation, transfer function calculation, Fourier transform application ABSTRACT: Recently, statistical methods have been developed for the determination of the dynamic characteristics of controlled objects (see, e.g. V. V. Solodovníkov, A. S. Uskov, Statisticheskiy analiz objectov regulirovaniya, Mashgiz, 1960) enabling one of Uskov, Statisticheskiy analiz objectov regulirovaniya, Mashgiz, 1960) enabling one of calculate the necessary characteristics of the system from the records of the input and output quantities collected during normal operation. These methods are inqually either trased

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	calculate the necessary characteristics of the system rum he is and the based calculate the necessary characteristics of the system rum he is a long to based calculate the necessary characteristics of the system of the integral
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2. 13 2. 13	where Ry (1) is the autocorrelation input function; Ryx (1) is the mutual correlation junction
	between the input and output of the system, and k(9) is the pulsed transfer function. This equation can be solved by means of Fourier transforms (V. V. Solodovnikov, A.S. Unkov,
	Avtomatika i telemekhanika, 1959. no. 12), and the necessary calculative manipulations can
	he carries with mine december 12, said the incessary caremative manipulations can



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EWT(a)/T IJP(c) T. 01038-67 SOURCE CODE: UR/0000/65/000/000/0034/0039 ACC NR. AT6015125 (A) AUTHOR: Imedadze, V. V.; Saakyan, E. A.; Melikhova, Ye. V. ORG: none TITLE: Some problems in evaluation of accuracy of correlation functions SOURCE: AN GruzSSR. Institut elektroniki, avtomatiki i telemekhaniki. Skhemy avtomaticheskogo upravleniya (Automatic control circuits). Tiflis, Izd-vo Meteniyereba, 1965, 34-39 TOPIC TAGS: correlation function, correlation statistics ABSTRACT: Further improvement in the methods of calculating correlation functions with the source information in discrete form, should go along these two directions: (1) Development of methods for evaluating the error depending on the number of points of source information; with knowledge of the process frequency spectrum available. the highest-frequency region should contain 10-40 points; (2) With a sufficiently large number of source-information points, the accuracy of calculation of correlation function should be determined. The present article places particular emphasis on the Card 1/2

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L 01038-67

### ACC NR: AT6G15125

case of a relatively small number of the source-information points. A formula for the centered autocorrelation function indicates two sources of errors: (a) level quantization and (b) determination of mathematical expectation. If the quantization interval is q = 1/31 maximum level, the quantization error is negligible. For practical purposes, it is recommended that estimation of the mathematical expectation be restricted to the second decimal place. With the above provisions, the correlation functions of interdependent parameters (30-70 points) of the rolling process at the Pervoural'sk Pipe Plant were estimated on a DK-1 digital correlograph developed by the Institute of Electronics, Automatics and Telemechanics, AN GruzSSR. Orig. art. has: 35 formulas.

SUB CODE: 12, 09 / SUBM DATE: 29Sep65 / ORIG REF: 005

awn

Card 2/2

# Dynamics of certain differential transmissions. Scob.All Grus. SS2. 17 no.1:27-34 '56. (MLRA 9:8) 1. Thilisekiy institut inshenerov shelesmedoroshnogo transporta imeni V.I. Lenina. Predstavleno deystvitel'nya chlenom Akademii E.S. Zavriyevya. (Power transmission) (Mechanical movements)

50V/124-57-9-9963

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 9, p 14 (USSR)

AUTHOR: Imedashvili, K. A.

TITLE: Kinematic Peculiarities of Some Planetary Transmissions

(Osobennosti kinematiki nekotorykh planetarnykh peredach)

PERIODICAL: Sb. tr. Tbilisk. in-ta inzh. zh.-d. transp., 1956, Nr 30, pp 156-160

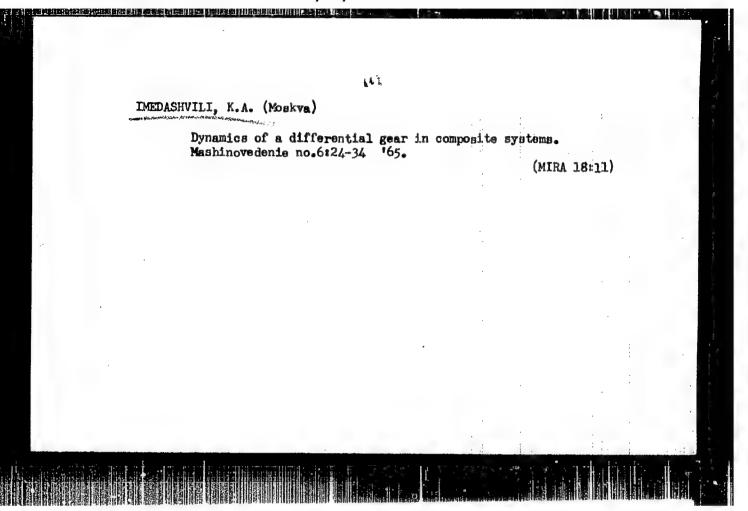
ABSTRACT: The magnitude of the gear ratio (in terms of absolute motion)

between the drive and the satellite gears is investigated for various

configurations of planetary mechanisms.

S.G. Kislitsin

Card 1/1



KHIDROGLUYAN, Sh.A.; IMEKCHYAN, N.M.

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Regeneration of the spinal cord in rats. Izv. AN Arm. SSR: Biol. nauki 17 no.4:11-20 Ap '64. (MIRA 17:6)

1. Institut fiziologii imeni L.A. Orbeli, AN Armyanskoy SSR.

IMMLIK, C. I.

IMMLIK, C. I. -- "Changes in Respiration in Muscular Work as Investigated by the Pnoumotachographic Nethod." Tartu State U. Tartu, 1955.

(Dissertation for the Degree of Candidate in Medical Sciences)

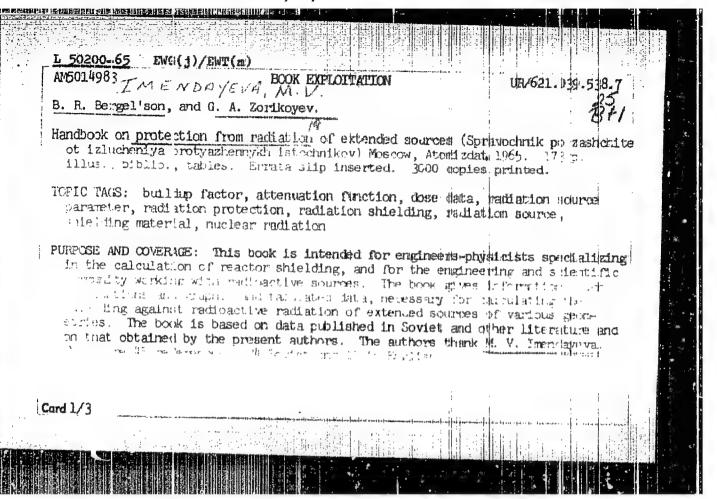
S0: Knizhnaya Letopis', No 1, 1956

IMEL KOVA, N.I. USSR/Biology - Plant physiology Card 1/1 Pub. 22 - 51/54 Authors Shestakov, A. G.; Ivanova, G. F.; and Imel'kova, N Sensitivity of plants to the effect of radioph sphorus during various Title development phases Dok. Ali SSSR 102/5, 1043-1046, Jun 11, 1955 Periodical Data are presented on the sensitivity of oat plants toward the effect of radiophosphorus applied during various phases of development. Remulta are described. One USSR reference (1955). Tables. Abstract Institution : The K. A. Timiryezev Agricult. Academy, Hoscou Academician A. L. Kursanov, February 14, 1955 Presented by

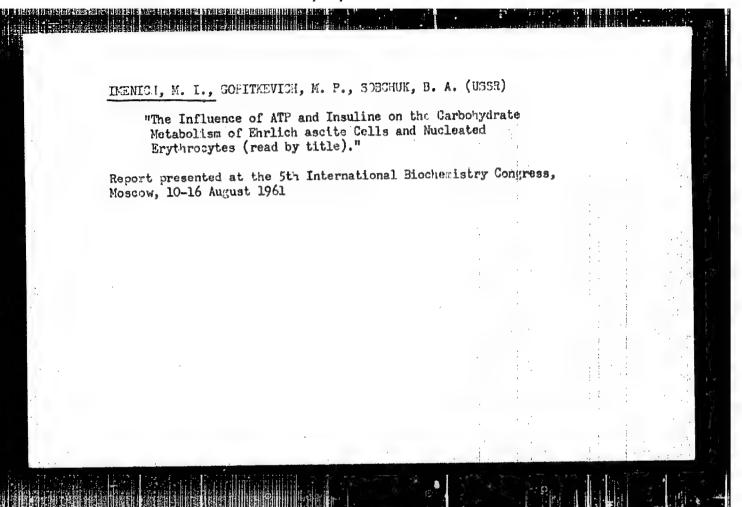
STEPANOV, V.N., prof. doktor sel'skokhoz. nauk; IMENDAYEVA, L.V., aspirantka.

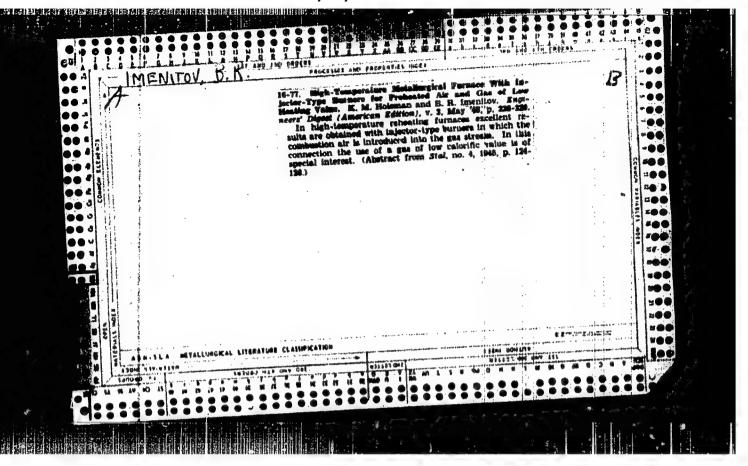
Utilization by plants of nutrients stored in seeds. Izv.
RSKHA nc. 1:82-91 \*65 (MIRA 19:1)

1. Kafedra rasteniyevodstva Moskovskoy sell'skokhozyaystvennoy ordena Lenina akademii imeni Timiryaseva.

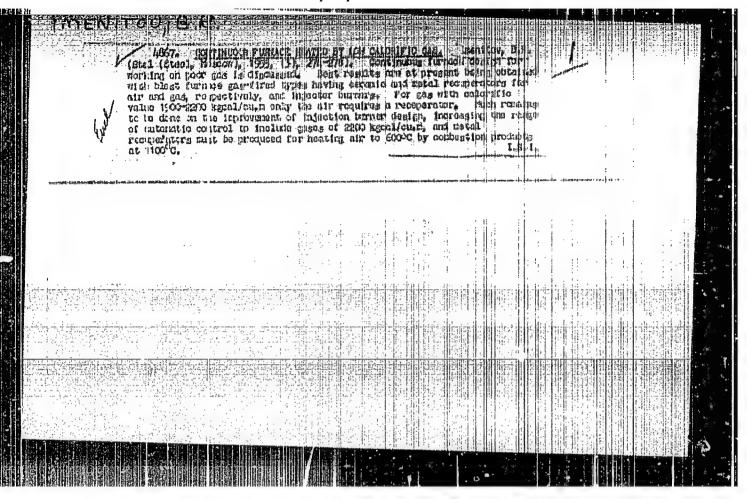


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	TABLE OF CONTENT'S [abridge Foreword — 3						
200	General — 5 1. Point and Linear sour 2. Surface sources — 7		diecion erop	e krend		Tricell	) : ::::::::::::::::::::::::::::::::::
	3. Volume sources — 13 4. Radiation yield from Graphs for Attenuation Fur	sources of various	s geometries	19			
	Supplement [parameters, et	tc.]_13			The state of the s		
	AVAILABLE: Library of Cor Cord 2/3	ngrees	165				





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IMENITOV, B. R., (Can. Tech. Sci.)

"The Use of Low-heat Gas, Burned in Ejector Burners in Warmed Air and Gas, for Heating High-Temperature Furnaces"

(Theory and Fractice of Gas Combustion; Transactions of a Scientific and Technical Necting) Leningrad, Gostoptekhisdat, 1958. 3kg p.

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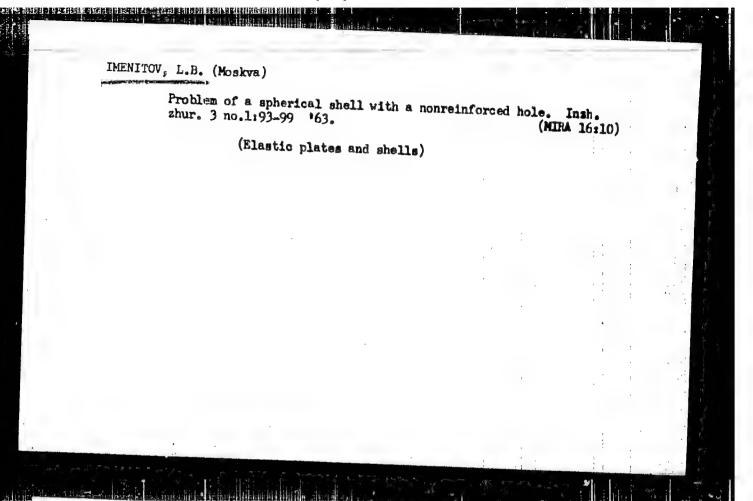
S/879/62/000/000/007/De3

AUTHOR: Imenitov, L. B. (Moscow)

FITLE: Application of the theory of functions of a complex variable to the solution of statically inteterminable problems of momentless theory of a spherical shell

SOURCE: Teoriya plastin i obolochek; trudy II Vsesoyumhoy konferentsii, L'vov, 15-21 sentyabrya 1961 g. Kiev, Izd-vo AN USSR, 1962, 94-96

TEXT: The author considers an elastic spherical shell with a hole, clamped along the edge, with a concentrated force acting at a certain point of the shell. In order to avoid the inconsistency in the boundary conditions, the author divides them into tingential and non-tangential conditions, and proposes that the former should be non-tangential conditions, and proposes that the former should be adjusted with the aid of momentless theory, the latter with the adjusted with the aid of momentless theory, the latter with the aid of the edge effect. It is stated that this possibility has been verified by expanding the unknown stress and displacement into severified by expanding the unknown stress can be constructed in card 1/2

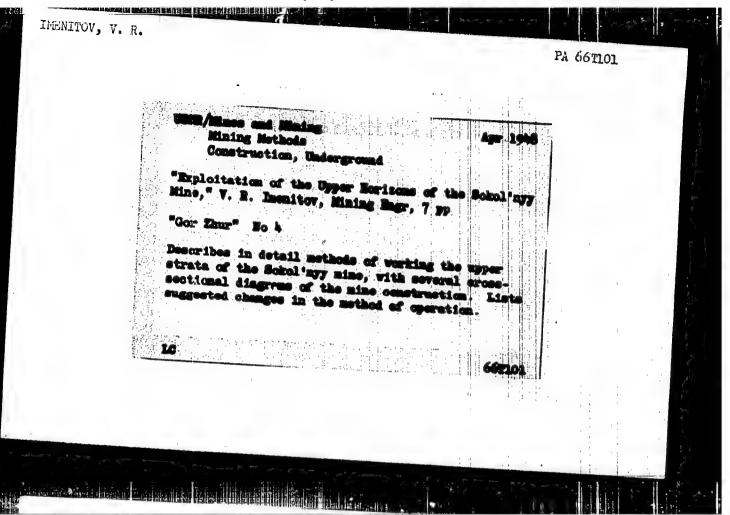


WEROVIN, K. A., IMENITOV, V. P.

USSR

"Hydreulic Packing". Tevet. Met. 14,
No. 10-11, Oct. -Nov. 1939.

Report Nol U-1506, 4 Oct. 1951



MENTOV, V.R.,

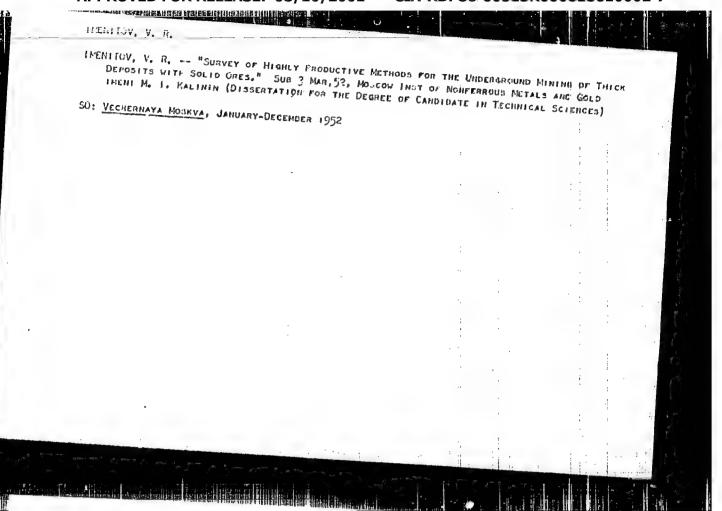
1. IMENTOV, V.R.,

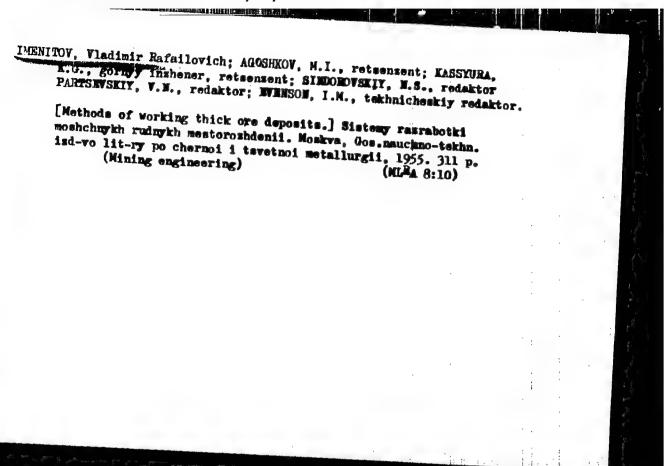
2. USSR (600)

4. Technolog y

7. Highly productive systems of working wide veins. Moskva, Metallurgizdat, 1951

9. Monthly hist of Russian Accessions, Library of Congress, February, 1953. Unclassified.





IMENITOVV.C. AUTHORS: Imenitor, V.R., Candidate of Technical Sciences, and Gamberg, 127-12-1/28 R.M. and Kazikayev, D.M., Mining Engineers TITLE: Methods of Preparation of Chamber Bottoms and Pillars (Sposoby podgotovki dnishch kamer i blokov) PERIODICAL: Gornyy Zhurnal, 1957, No 12, pp 3-8 (USSR) ABSTRACT: The Zyryanovek Lead Combine mines from the thick steep-sloping deposits of very hard ore by breaking off the ore with deep blast holes. The author describes several mining systems used in various ore mines and then dwells on the trench undercutting of chambers which is the system used in the Zyryanovsk mine of the Zyryanovsk Lead Combine. Citing some technical and economical indices of this system the author draws the follow-The trench undercutting method is more efficient than the undercutting with formation of funnels; moreover, the costs of development opening are reduced. 2. The formation of trenches by horizontal bore holes is more economical than their formation by vertical fan-shaped sets of holes; in addition to this, it achieves more regular outlines Card 1/2 of the trenches which facilitate the subsequent breaking off

Methods of Preparation of Chamber Bottoms and Pillers

127-12-1/28

the ore in the chambers.

3. The rectangular shape is the best suited for the trench orts.

4. Slopes for the ore outlet with an incline of 50 to 60° are better than vertical ones.

5. If the ore is sufficiently rigid, it is expedient to make wide slits instead of slopes in the trench undercutting system. 6. Funnels formed by means of blasting are to be advanced from below upward for the entire cross section at once. The article contains 7 figures, and 2 tables.

ASSOCIATION: Moscow Mining Institute (Moskovskiy gornyy institut) and Zyryanovek Lead Combine (Zyryanovskiy svintsovyy kombinat)

AVAILABLE:

Library of Congress

Card 2/2

IMENITOV, V.R., detsent, kand. tekhr. nauk; URALOV, V.S., insh.

Pirst results of medeling block caving by blast. Mauch. dekl.

vys. shkely; ger. dele no.1:9-14 '59. (NIBA 12:5)

1.Predstavlena kafedrey rasrabetki rudnykh nesterezhdeniy

Meskevskege gernege instituta im. I.V. Stalina.

(Mining engineering)

DENITOV, V.R., kand.tekhn.mauk; MIL'GHEMKO, D.V., gorn.insh. Principles of large-scale breaking down of ores. Gor. shur. no.8:42-44 Ag \*60. (MPA 13:8) 1. Moskovskiy gormy institut (for Imenitor). 2. Zyryanovskiy svint: ovyy kombinat, Vostochno-Kasakhstanskaya oblast\* (for Mil'chenko). (Mining engineering)

IMENITOV, V.R., dotsent

Determining mine productivity in terms of the maximum, technically feasible extraction. Izv. vys. ucheb. sav.; gor. (MIRA 13:9)

1. Moskovskiy gornyy institut ir. I.V. Stalina. Rekomend. kafedroy razrabotki rudnykh mestorozhdeniy.

(Mining engineering)

IMENITOV. Visitmir Rafail vich; KOVALEV, Iger' Anteninovich;

URALUT Visitmir Exgryyevien

[Modeling one caving and drawing; a manual] Modelirovanie cbrucheniia i vypuska rudy; uchebnice posobie. Moskva;

Mosk. gornyi in-t, 1961. 150 p. (MIRA 18:4)

IMENITOV, Vladimir Rafailovich. Primimali uchastiye: KUTUZOV, D.S.;

FAYBISHENKO, D.I.; ZHIGALOV, M.L.; AGOSHKOV, M.I., retsenzent;

MALKIN, I.M., kand. tekhn. nauk, retsenzent; ALBOROV, Z.B.,

kand. tekhn. nauk, retsenzent; BUBLIS, A.N.; gorn. inzh., retsenzent; BUNIN, A.I., otv. red.; SIPYAGINA, Z.A., red. izd-va;

SHKIYAR, S.Ya., tekhn. red.

[Highly productive systems of mining thick hard ore deposits]
Vysokoproizvoditel nye sistemy razrabotki moshchnykh nestorozhdenii krepkikh rud. Moskva, Gos.nauchno-tekhn.izd-vo litry po gornomu delu, 1961. 417 p. (MIRA 15:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Agoshkov). (Mining engineering)

IMENITOV, V.R., doktor tekhn.nauk; GAMBERG, R.M., gornyy inmh.; KAZIKAYEV, D.M.

Results of tests of the chamber mining system without pillars on the bettom in the "Myryanovsk" Mine. Gor. whur. no.2:18-23 P 163. (MIRA 16:2)

1. Moskovskiy institut radioelektroniki i gornoy elektronekhaniki (for Imenitov). 2. Zyryanovskiy rudnik (for Gamberg, Kasikayev).
(Zyryanovsk District—Mining engineering)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610002-7

IMENITOV, V.R., prof., doktor tekhn. nauk; CHIAYEV, T.I., gormy; inzh.; INFANT'YEV, A.N.

Investigating the behavior of sand and clay depositions in the mining of iron ore deposits in the Kursk Magnetic Anomaly. Gor. zhur. no.9:22-23 S 164. (MIRA 17:12)

l. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki (for Imenitov, Chiayev). 2. Direktor Yakovlevskogo rudnika Kurskoy magnitnoy anomalii (for Infant'yev).

IMENITOV, V.R., prof., doktor tekhn.nauk; PUSTOVALOV, A.I.

THE PROPERTY OF THE PROPERTY O

Method of ore breaking under compression. Gor.zhur. no.12:19-23 D \*64. (MIRA 18:1)

1. Moskovskiy institut radicelektroniki i gornoy elektromekhaniki (for Imenitov). 2. Glavnyy inzh. rudnika im. XXII s"yezda Kommunisticheskoy partii Sovetskogo Soyuza Zyryanovskogo svintsovogo kombinata (for Pustovalov).

20802

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26.253~

AUTHORS:

Burdukov, Yu. M., Imenkov, A. N., Nasledov, D. N., and

Tsarenkov, B. V.

TITLE:

Alloyed GaAs junction diodes

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 3, 1961, 991-994

TEXT: This is the continuation of Refs. 1-9 which the authors published in FTT with the exception of Ref. 9 (C. T. Sah, R. N. Noyce, W. Shockley, Proc. IRE, 45, 9, 1228, 1957). The diodes studied were made from thin plates of n-type GaAs single crystals which had been grown by the method of Chokhral'skiy. Their resistivity was 0.02 ohm·cm, their electron concentration £10<sup>17</sup> cm<sup>-3</sup>, and their mobility 3500 cm<sup>2</sup>/v·sec at room temperature. The p-n junction was obtained by introduction of molten zinc or from the eutectic Au-Zn alloy. Lead served as non-rectifying base contact. The area of the p-n junction was equal to S = 0.005 cm<sup>2</sup>. The volt-ampere characteristics of such a diode at 25 and 300°C are shown in a figure. They were recorded by the "characteriograph" described in Ref. 10 (Tsarenkov, PTE, No. 2, 144,

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Alloyed GaAs ...

1960). The most important results were the following: 1) The direct branch of the diode characteristic at voltages below the cutoff voltage can be described by the formula  $I_{\rm dir} = I_0 \left[ \exp(q U_{\rm dir}/\beta kT) - 1 \right]$  (1).  $I_{\rm dir}$  is the direct current density,  $U_{\rm dir}$  the direct voltage drop on the diode, and  $\beta$  a dimensionless factor.  $I_0$  increases with rising temperature. Within the range of nitrogen temperatures to room temperature,  $I_0(T)$  is a weak function (weaker than at higher temperatures). At room temperature,  $I_0 \simeq 10^{-8} - 10^{-7} \text{ a/cm}^2$ , and at  $300^{\circ}\text{C}$ ,  $I_0 \simeq 10^{-5} - 10^{-4} \text{ a/cm}^2$ .  $\beta$  decreases with rising temperature within the range of  $-196 - +300^{\circ}\text{C}$ . At nitrogen temperatures,  $\beta \simeq 7 - 12$ , at room temperature, 2 - 3; and on a further change in temperature, it approaches a value  $\leq 2$ . The direct branches of the voltampere characteristics of several diodes have two exponential sections:  $I_{\rm dir}^{\dagger} = I_{\rm ol} \exp(q U_{\rm dir}^{\dagger}/\beta_1 kT)$  and  $I_{\rm dir}^{\dagger} = I_{\rm ol} \exp(q U_{\rm dir}^{\dagger}/\beta_2 kT)$ ;  $U_{\rm dir}^{\dagger} = I_{\rm ol} \exp(q U_{\rm dir}^{\dagger}/\beta_1 kT)$  and  $I_{\rm dir}^{\dagger} = I_{\rm ol} \exp(q U_{\rm dir}^{\dagger}/\beta_2 kT)$ ;  $U_{\rm dir}^{\dagger} = I_{\rm ol} \exp(q U_{\rm dir}^{\dagger}/\beta_1 kT)$  and  $I_{\rm dir}^{\dagger} = I_{\rm ol} \exp(q U_{\rm dir}^{\dagger}/\beta_2 kT)$ ;

 $U_{\rm dir}^{\rm I}$  <  $U_{\rm oir}^{\rm I}$ ,  $I_{\rm o1} \gg I_{\rm o2}$ ,  $\beta_1 > \beta_2$ .  $I_{\rm o1}$  and  $I_{\rm o2}$  increase with temperature  $\{I_{\rm o2}\}$  faster than  $I_{\rm o1}$ ); at 200-300°C,  $I_{\rm o1} \simeq I_{\rm o2}$ ,  $\beta_1 \simeq \beta_2$ . The occurrence of two

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Alloyed GaAs ...

exponential sections of the direct branch is related to the surface properties of the diode. By a change of the composition of the etching agent, one of them disappears, and in formula (1) I and I and page. The existence of two sections and the disappearance of one section by surface treatment is ascribed to the fact that the surface of gallium arsenide has an inverse layer. The cutoff voltage of the direct branch is lower than the contact; voltage calculated according to Shockley's junction theory, and drops with increasing temperature. The temperature coefficients of the two voltages are almost equal. The curvature Gg of the linear section of the direct branch calculated from the data of the diode with a base 0.5 mm thick amounted to ~103 a/v·cm2. The differential resistance at zero voltage can be exactly calculated from the formula  $R_0 = \beta kT/qI_0$ .  $R_0(T)$  is nearly inverse to  $I_0(T)$ . Ro of diodes with two exponential sections of the direct branch is much smaller than  $R_0$  of diodes with only one section. The reverse branch of the characteristics at voltages lower than the breakdown voltage can be described by the empirical formula I rev = AUn , where n \$1; I rev increases with temperature. The breakdown voltage also increases with temperature, which is Card 3, 6

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Alloyed GaAs ...

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taken as an indication of the electric character of breakdown in low-voltage GaAs diodes. There are 1 figure and 11 references: 9 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION:

Fiziko-tekhnicheskiy institut AN USSR Leningrad (Institute of

Physics and Technology, AS USSR, Leningrad)

SUBMITTED:

September 23, 1960

Legend to Fig.: Ordinate unit 4 ma, abscissa unit 1 v (left-hand diagrams) or 0.25 v (right-hand diagrams).

Card 4/6

arms exactive alieuri fidiracioni di compiliari di compili EWT(m)/EMP(t)/EWP(b) IJP(c)/PAEP(a)/ATVIL/ESID(as)/ESID(t) JD L 18849-65 A JESSION NR: AF4043341 5/0161/64/10/06/0/08/2281/22/88 AUTHORS: Imenkov, A. N.; Meskin, S. S.; Masledov, D. N.; Ravich V. N.; Tsarenkov, B. V. TITLE: Electrical properties of ph tunne lungtions arsenide SOURCE: Fizika tverdogo tela, v 6 TOPIC TAGS: gallium arsenide diode, pp junction, single crysta tunnel current, temperature dependence, forbidden band ABSTRACT: Forward and reverse branches of the curtent-udltage characteristics of p-n tunnel junctions in GaAs were investigated between 77 and 425K. The junctions (10<sup>-5</sup> cm<sup>2</sup> in area) were produced in single-crystal Zn-doped p-type material by alloying with tin. Direct current or voltage pulses (to avoid heating) were used. The forward (tunnel and recombination) current rose rapidly to a Cari 1/3

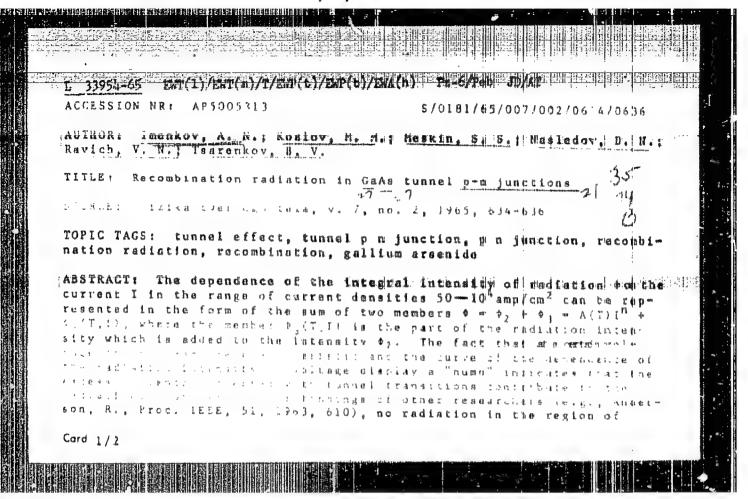
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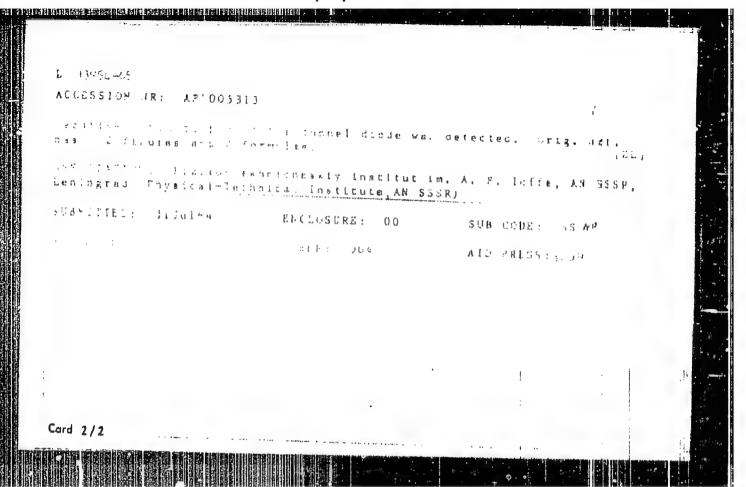
Card 2/3

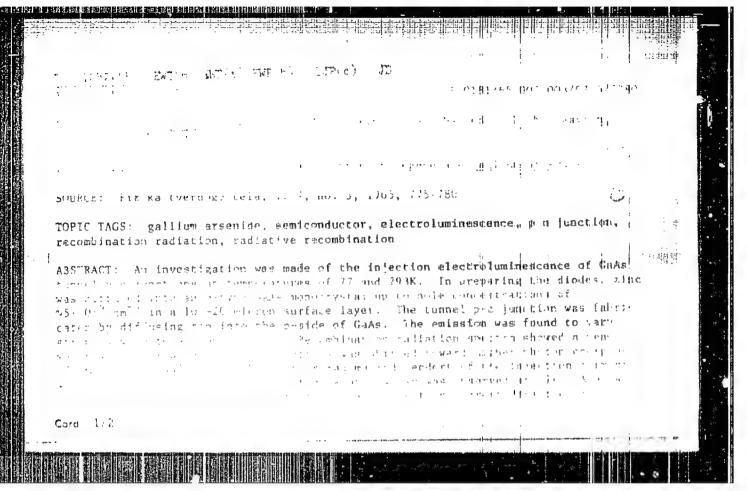
ACCESSION NR: AP4043341

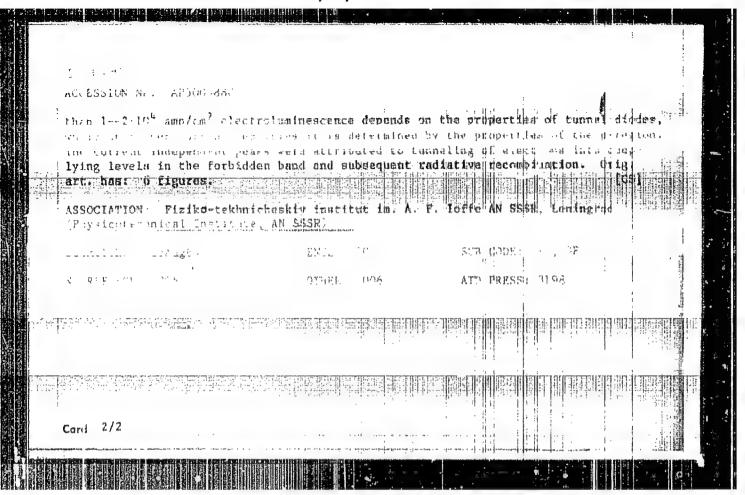
maximum at 0.1 V; this was followed by an exponential fall of the current  $\{\Gamma \sim \exp(-qU/|\mathcal{E}_1)\}$  nearly to zero at 0.5-0.7 V and an exponential rise  $\{\Gamma \sim \exp(qU/|\mathcal{E}_2)\}$  on further increase of the voltage. The values of  $\mathcal{E}_1$  and  $\mathcal{E}_2$  were independent of temperature, which indicated the presence of levels in the forbidden band. The forward current was little affected by temperature due to a weak temperature dependence of the tunnel transition probability and of the Fermi function. The Fermi level at room temperature was  $\Gamma_p = 0.08-0.15$  eV for the p-region and  $\zeta_n = 0.26-0.32$  eV for the n-region. The reverse tunnel current increased, linearly at  $U < \{\zeta_p, \eta/q\}$  and quadratically at  $U > \{\zeta_p, \eta/q\}$ , with rise of the voltage across the junction. This indicated that at energies  $\mathcal{E} > \frac{1}{p}$ , the band involved in the reverse tunnel current was parabolic. The reverse

L 18849-65 ACCESSION NR: AP4043341 current varied very little with temperature, again due to a weak temperature dependence of the tunnel transition probability and of the Fermi function. "The authors are grateful to F. Kh. Kreyndel' and G. V. Kuznetsora for help with the work and to R. F. Kazarinov for a discussion of the results." Orig. art. has: 6 figures and 5 formulas. Fiziko-tekhnicheskiy institut im. A. F. Toffe AN ESSR ASSOCIATION: Leningrad (Physicotechnical Institute, AN SSSR) SUBMITTED: 10Jan64 ENCL SUB CODE: EC, SS NR REF SOVE 004 OTHER: **り**り7 Card 3/3

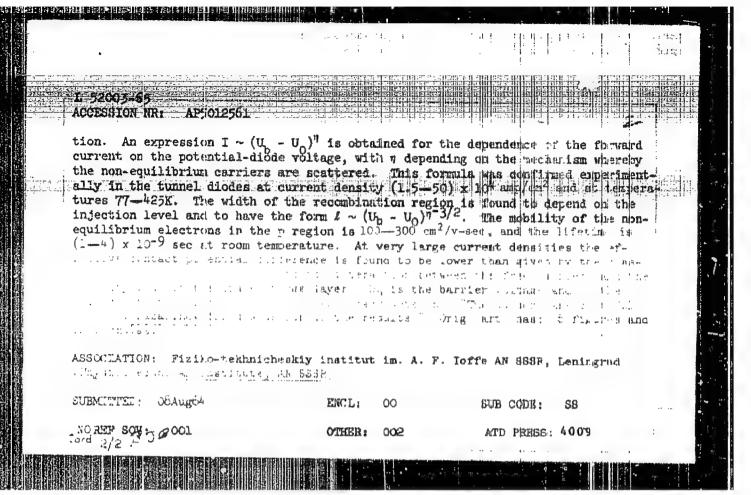






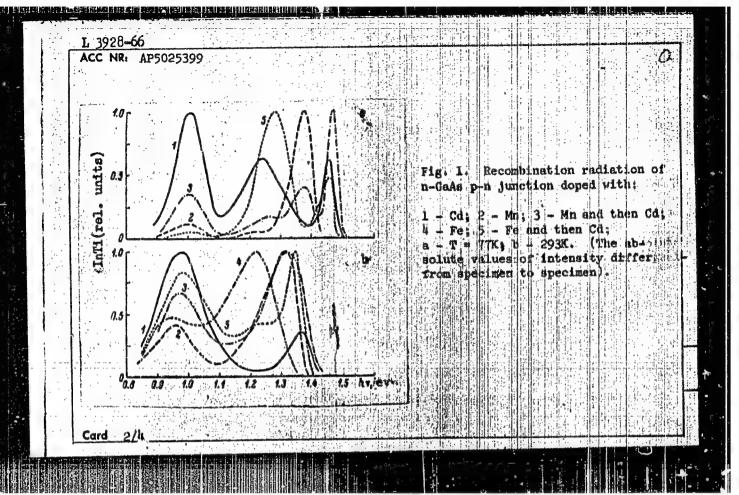


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ACC NR. AP5025399 BOURCE CODE: UR/0181/65/007/0.0/3115/3118 AUTHOR: Imenkov, A. N.; Kogan, L. H: Kozlov. M. M.; Meskin, S. S.; Tsarenkov. B. Nasledov. ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhni 44.55 TITLE: The effect of impurities on the recombination radiation of gallium arsenide SOURCE: Fizika tverdogo tela, v. 7, no. 10, 1965, 3115-3118 TOPIC TAGS: recombination radiation, gallium arsenide, pn junction, impurity, ABSTRACT: The effect of Zn, Cd, Mn, and Fe impurities on the recombination radiation of GaAs p-n junctions was experimentally investigated. The junctions were formed by direct diffusion of the element, by simultaneous diffusion of the and Cd and Fe and Cd, or by diffusion of Mn and then Cd, or Fe and then Cd into n-type GaAs with an electron concentration  $(N_n)$  of 5 x  $10^{16}$  -3 x  $10^{18}$  cm<sup>-3</sup> (drystals with  $N_n > 7$  x  $10^{17}$ cm were doped with Te), The junction area was 10-3-10-4 cm2. The recombination spectra were measured at 77 and 293K in the photon energy range between 0.7 and 1.6 ev. The spectra were recorded at direct injection currents at which the energy of the short wavelength band was independent of the current. The experimental data are given in Fig. 1, and Table 1. The band with hymax 2 1.01 ev (77K) and hymax = 0.95-0.98 ev Card

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EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) JD/QG IJP(c) L 6509-66 UR/00#0/65/163/003/0606/0608 AP5019425 ACCESSION NR: 44,66 H.; Imenkov, A.; Goryunova, A. N.; Zlatkin, AUTHOR: Belle, M. L.; Valov, Yu. N.; Kozlov, M. M.; Tsarenkov, B. V. TITLE: Optical and photoelectric properties of single-crystal ZuSiPa SOURCE: AN SSSR. Doklady, v. 163, no. 3, 1965, 606-608 TOPIC TAGS: optical property, photoelectric property, zinc compound optic material, forbidden band, light polarization, absorption edge, temperature dependence ABSTRACT: In view of the lack of published data on this compound, the authory bive studied the photoelectric and optical properties of n-type single crystals of italied from the gas phase by the method of gas-transport reactions. The spectral sensitivity of the photoconductivity was measured at 77 and 300K using a setup conprising a tungsten incandescent lamp, a light interrupter, a monochromator (IKS-21), amplifier (V2-6), synchronous detector, and electronic potentioneter (EPP-C9). The absorption spectrum was measured with the spectrograph and a camera at 300, 17, and 4.2K. In addition, the authors investigated the influence of polarization of the incident light on both the optical and photoelectrical properties. Photoconfuctivity was observed at incident photon energies 0.5--2.5 ev. At 300K the photoconductivity has a highly peaked maximum at 2.14 ev, and also maxima at 0.8 and 1.0 Card 1/2

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ev, attributed to impurities. At TTK the maxima shift to 4.19, 1.04, and 0.84 respectively. The spectral photoconductivity curve exhibited also some kinks due to transitions of the electrons from the valence to the conduction band. Polarization began to affect the photoconductivity only above 2 ev, when the photoconductivity became highly sensitive to the direction of the electric vector. This may be due to anisotropy of the crystal. Not all crystals showed a sharp absorption edge, a fact attributed to the number of crystal defects. Where a sharp absorption edge was observed, it showed a dependence on the temperature and on the polarization. The maxima of the photoconductivity and the start of the strong optical absorption were very close to each other, and the sharpness of the absorpt on edge suggests the presence of direct interband transitions in ZnSiP2. The forbidden band is estimated at 2.13 ev at 300K and between 2.2 and 2.25 ev at 77K. Two absorption bands are observed at 2.23 and 2.27 ev at 77 and 4.2K, and their origin is not clear. This report was presented by L. A. Artsimovich. Orig. art. has: 2 figures

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Absdemii nauk SSSR

(Physicotechnical Institute, Academy of Sciences SSSR)

SUBMITTED: 17Nov64

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APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618610002-7"

IMENKOV, A.N.; KOGAN, L.M.; KOZLOV, M.M.; MESKIN, S.S.; NASLEDOV, D.N.; TSARENKOV, B.V.

Effect of impurities on the recombination radiation spectra of gallium arsenide. Fiz. tver. tela 7 no.10:3115-3118 0 '65.

(MIRA 18:11)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.

regal to the design of the control o L 01/711-67 ENT(1)/ENT(m)/ENP(t)/ETI IJP(c) AT/JD ACC NR: AP6024472 SOURCE CODE: UR/0181/66/008/007/2098/2103 AUTHOR: Imenkov, A. N.; Kozlov, M. M.; Nasledov, D. N.; Tsarenkov, B. V. ORG: Physicotechnical Institute im. A. F. Ioffee. AN SSSR. Laningred (Fizikotekhnicheskiy institut AN SSSR) TITLE: Kinetics of radiative recombination of nonequilibrium carriers in GaAs p-n junctions SOURCE: Fizika tverdogo tela, v. 8, no. 7, 1966, 2098-2103 TOPIC TAGS: gallium argenide, radiative recombination, semiconductor carrier, pn junction, relaxation process, spectral distribution, radiation intensity ABSTRACT: The cuthors report results of experiments on the dependence, on the current density, of the intensity of radiation for different bands of the spectrum (photon energy range 0.7 - 1.5 ev) of GaAs diffusion p-n junctions, at 77 and 293K, and also results of a simultaneous investigation of the relaxation of the radiation intensity when rectangular current pulses are passed through the junction. The relaxation study is a continuation of earlier work by the authors (Abstracts of Papers of Second All-Union Conference on p-n Junctions, AN LatSSR, Riga, 1964, p. 14) where a long-wave aftereffect was noted after the termination of a square pulse. The GaAs p-n junctions were obtained by diffusion of Zn, Cd, or Cd and Mn jointly. The tests consisted of determining the spectral distribution of the radiation intensity, the variation of the radiation intensity with the current, and oscillograms of the current, voltage, and

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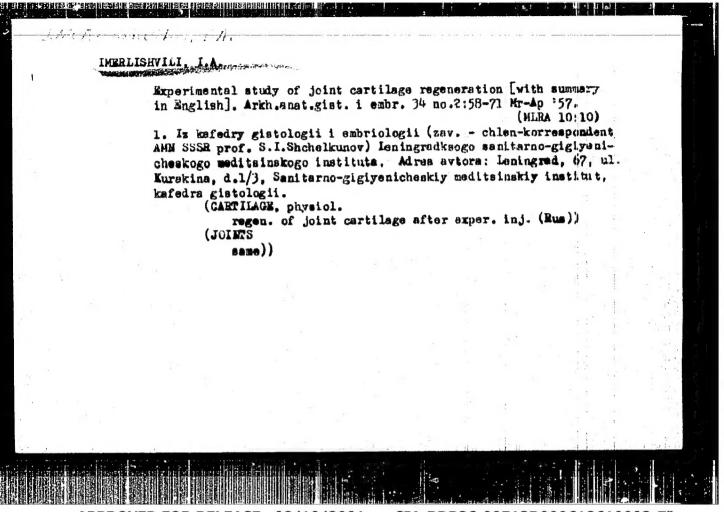
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radiation-intensity pulses. The current pulses ranged in amplitude from 0.05 to 7 ampliand in duration from 10 to 100  $\mu$ sec. Pulses with duration  $\nu$ 10 nsec were also used. The spectrum consisted of several bands, the presence of which indicates that the recombination of the nonequilibrium carriers goes in part through deep levels. The possible kinetics of such a process are discussed. The current and voltage relaxation time is several orders of magnitude shorter than the intensity relaxation time of the long-wave radiation. The bands with longer wavelength have longer relaxation times. The two ban-s with the longest wavelength are attributed to recombination of the minority carriers injected over the potential barrier and crotured at deep levels. The authors thank 0. V. Konstantinov, V. I. Perel', and A. L. Efros for a discussion of the results. Orig. art. has: # figures.

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